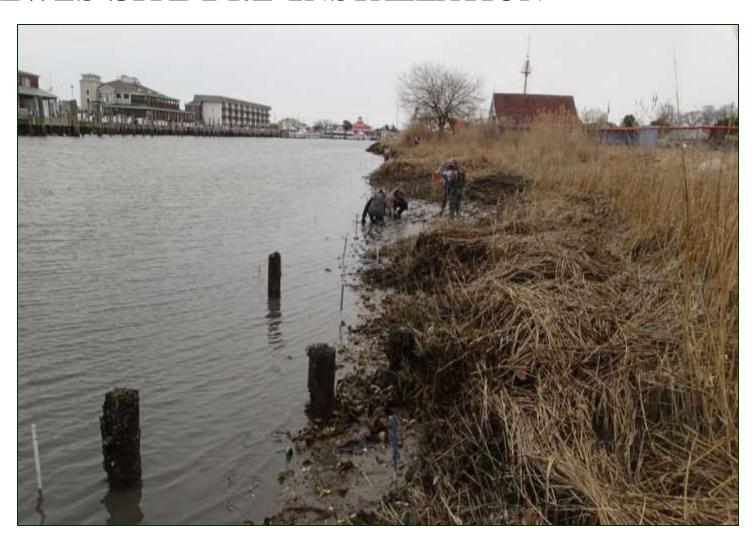
INTRO TO LEWES LIVING SHORELINE

March 16, 2016 Alison Rogerson – DNREC Andy Howard - DNREC

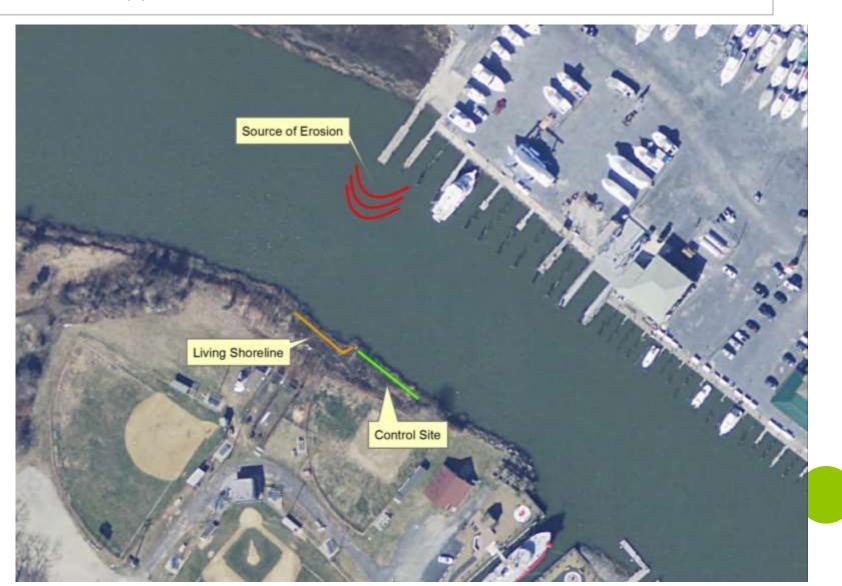
EXAMPLE: LEWES BALL FIELD PROJECT, DELAWARE

- Partners: Delaware DNREC and the Partnership for the Delaware Estuary (PDE)
- Project Type: Bio-Based Living Shoreline
- **Project Goal:** Erosion Control, Education, Demonstration
- **Tasks:** To track changes in vegetation extent and topography as a result of the installation at the treatment location and a paired control
- Location: Lewes Canal behind Little League Ball Fields

LEWES SITE PRE-INSTALLATION

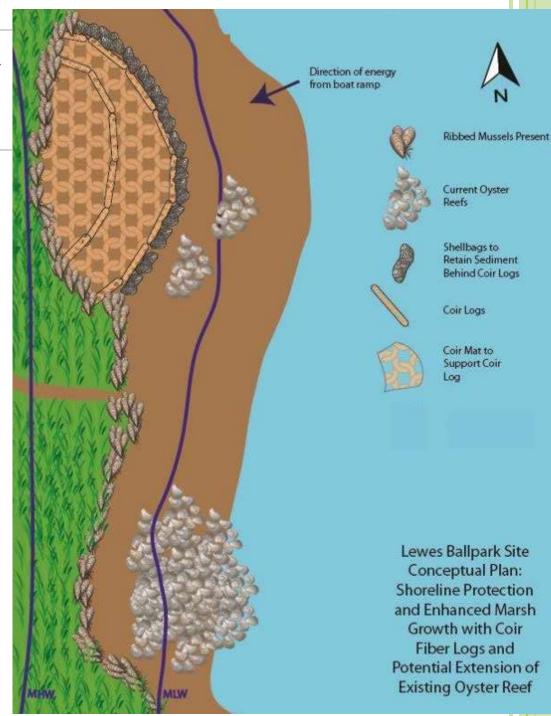


Lewes Ball Field Project, Delaware



PROJECT DESIGN

- Paired treatment and control cells
- Works around existing mussel and oyster beds
- Coir logs will trap sediments, allow plants to establish and prevent erosion

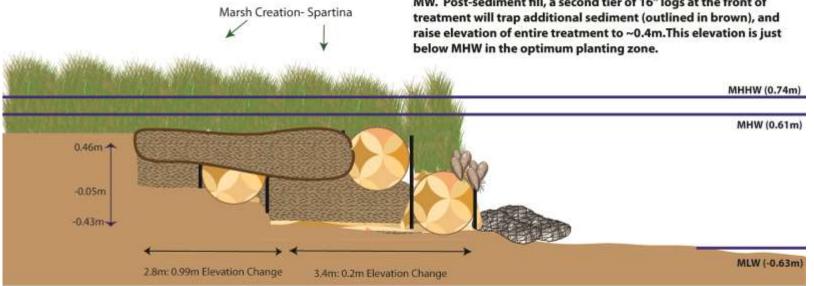


Lewes Ball Field Project DESIGN

Lewes Ballfield Conceptual Plan Profile -

Salt Marsh Habitat Enhancement using Coir Fiber Logs and **Natural Existing Ribbed Mussel Populations and Oyster Reefs**

An initial installation of 16" coir logs in a terraced formation will trap sediment increasing the elevation at the front of the treatment to MW. Post-sediment fill, a second tier of 16" logs at the front of treatment will trap additional sediment (outlined in brown), and raise elevation of entire treatment to ~0.4m. This elevation is just













Coir Fiber Mat

New Sediment Post Installation

Shellbag

Ribbed Mussels

Materials & Costs

ITEM	PRICE	NOTES	Quantity	Cost	per ft
Coir Logs	\$127.89	12' x 16" log	19 logs	\$2,429.91	\$28.93
Coir Mat	\$201.60	165 linear ft	2 roll	\$403.20	\$4.80
Twine	\$40.00	1 roll	1 roll	\$40.00	\$0.48
Spartina plugs	\$0.50	1 per sq ft	800 plugs	\$400.00	\$4.76
4' stakes	\$1.95	12 per log	228 stakes	\$444.60	\$5.29
Oyster shell	\$5.00	per linear ft	84ft	\$420.00	\$5.00
			TOTAL=	\$4,137.71	\$49.26

PHASE I INSTALLATION - APRIL 2014



SITE VISIT- JULY 2014



PHASE II INSTALLATION - OCTOBER 2014



SALVAGE PLANTING - MAY 2015



SITE VISIT- AUGUST 2015



STORM REPAIR - FEBRUARY 2016

